

1	APPLICATIONS	27	SYSTEMS
2	.Control	28	.Identifying or correcting improper counter operation (e.g., error checking, monitoring; preventing or correcting improper counter operation)
3	.Counting on an object, areas having alternating physical properties (e.g., counting lines on grid, teeth on gear, windings on coil)	29	..Testing or calibrating the counter
4	.Betting on the outcome of an event; Totalizers	30	..Preventing an inaccurate count as a result of an external condition
5	.Game or sport	31	...Automatic preset
6	.Counting animate or inanimate entities	32	...Power failure
7	..Coins	33	.Using particular code or particular counting sequence
8	..Flat articles (e.g., sheet, bill, ticket)	34	..Minimum change code (e.g., Gray code)
9	..Vehicles	35	..Excess three code
10	..Field of view contains plural entities or entities scanned plural times (e.g., microscopic particles)	36	..Biquinary code
11	...Including particle size determination variations	37	.Sequential readout of plural counters or sequential sampling of inputs to a counter
12	...Counting by detecting electrical impedance variations	38	.Plug in counter
13	.Registering counts for different categories (e.g., accounting)	39	.Comparing counts
14	..Where the different categories represent monetary amounts (e.g., wages, charges)	40	.Nonsignificant zero elimination
15	.Counting based on number of times machine or apparatus operates	41	.Complementing a count
16	.Determining machine or apparatus operating time or monitoring machine, apparatus or operation	42	.Converting input or output signal from or to an analogue signal
17	.Position determining	43	.Having phase shift
18	..Of flat flexible strip (e.g., tape)	44	.Counter controlled counter
19	.Measuring or testing	45	.Including reversible counter
20	..Time combined with measurement of another parameter	46	.Including ring counter
21	..Fluid flow	47	.Pulse multiplication or division
22	..Weight	48	..Multiplication or division by a fraction
23	..Acceleration	49	.Counter includes circuit for performing an arithmetic function
24	..Dimension	50	.Compensation for excess or shortage of pulses
24.1	...Distance and Powered Vehicle (e.g., odometer)	51	.Including structure for detecting or indicating overflow condition
24.2	...Distance and Human Activity (e.g., pedometer, nonpowered golf carts)	52	.With programmable counter (i.e., with variable base)
25	..Temperature	53	.With photoelectric sensor
26	.Including memory	54	.Using shift register
		55	.Particular input circuit
		56	.Particular output circuit

57	CHARGE TRANSFER DEVICE (E.G., ANALOGUE SHIFT REGISTER, CCD, BUCKET BRIGADE DEVICE)	96	..Using auxiliary pulse generator triggered by incoming pulses
58	.Compensating for or preventing signal charge deterioration	97	.Hysteresis storage (e.g., counters using saturable magnetic core elements)
59	.With feedback	98	.DEVICES HAVING MORE THAN TWO STABLE STATES
60	.Particular input or output means	99	.Beam type tube (e.g., magnetron, cathode-ray tube)
61	.Direction and/or path flow control (e.g., by clocking or biasing, by charge splitting)	100	.Multi-cathode gas discharge tubes
62	..In charge-coupled device	101	USING BISTABLE MAGNETIC CORES OR FERROELECTRIC CAPACITORS
63	.Charge-coupled device	102	USING BISTABLE ELECTRO-OPTICAL DEVICES
64	SHIFT REGISTER	103	COUNTING OR DIVIDING CHAINS USING GAS-FILLED TUBES
65	.Using electromechanical relays	104	PHASED CLOCKING
66	.Asynchronous	105	.Field-effect transistor
67	.Multirank (i.e., rows of storage units form a shift register)	106	PARTICULAR PARALLEL GATING OR CLOCK SIGNAL
68	.Compensating for or preventing signal deterioration	107	STARTING, STOPPING, PRESETTING OR RESETTING THE COUNTER
69	.Shift direction control	108	.Counter chains with a radix or base other than the number two raised to an integral power
70	.Particular input circuit	109	..Decade
71	..Pulse shaping	110	..Programmable (e.g., with mechanical or electromechanical switch means for selecting the count
72	..With feedback	111	PARTICULAR INPUT CIRCUITS FOR COUNTER
73	..Including logic circuit	112	INDICATING MEANS
74	...Field-effect transistor	113	.Using glow discharge lamps
75	.Particular output circuit	114	PARTICULAR OUTPUT CIRCUITS FOR COUNTER
76	..Sequential output (e.g., tapped delay line)	115	PARTICULAR TRANSFER MEANS (E.G., MASTER-SLAVE)
77	.Particular transfer means	116	.Including logic circuit
78	..Phase clocking or synchronizing	117	..Field-effect device (e.g., JFET, IGFET, MNOS)
79	...Field-effect transistor	118	PULSE COUNTING OR DIVIDING CHAINS
80	..Parallel clocking	119	.Using bistable regenerative trigger circuits
81	..Logic circuit	120	..Using only semiconductors having at least three electrodes
82	ELECTROMECHANICAL COUNTER	121	...Field-effect device (e.g., JFET, IGFET, MNOS)
83	.Counting or dividing chains using relays	122	...Ring counter
84	.Programmable (i.e., with variable base)	123	...Reversible counter
85	.Reversible	124	..Ring counter
86	.Particular input means	125	..Reversible counter
87	.Particular output means		
88	.With resetting		
89	.Rotary magnet		
90	.Stepping switch		
91	.Clutch or escapement		
92	.Pawl and ratchet		
93	WITH SUPERCONDUCTIVE ELEMENT		
94	COUNTING OR DIVIDING IN INCREMENTAL STEPS (I.E., STAIRCASE COUNTER)		
95	.Charge storage (e.g., capacitor without polarization hysteresis)		

- 126 .Ring or reversible counter
- 127 .Using bistable semiconductors
having at least three
electrodes or analogous
complementary transistor
circuits (e.g., avalanche
transistor, SCR's)
- 128 .Using bistable semiconductors
having only two electrodes
(e.g., tunnel diode,
multilayer diode)
- 129 **PULSES CONTINUOUSLY CIRCULATED IN
A CLOSED LOOP**
- 130 **MISCELLANEOUS**

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